



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Ganapathy et al.) Group Art Unit: 1642
Serial No.: 10/718,359) Examiner: Unknown
Confirmation No.: 3660) Docket NO. 275.00080101
Filed: November 20, 2003)
For: NaCT AS A TARGET FOR LIFESPAN EXPANSION AND WEIGHT REDUCTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

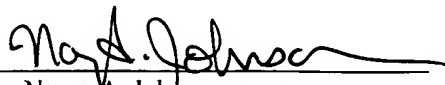
- ☒ **Small entity status is entitled to be asserted in the above-identified application.**
☒ An itemized return postcard.
☐ A Petition for Extension of Time for __ month(s) and a check in the amount of \$__ for the required fee.
☒ An Information Disclosure Statement (2 pgs); copies of 0 applications; 1449 forms (17 pgs); and copies of 153 documents cited on the 1449 forms.
☐ A check in the amount of \$__, representing ____.
☐ A certified copy of a __ application, Serial No. __, filed _____, the right of priority of which is claimed under 35 U.S.C. §119.
☐ Other: ____.
☐ Amendment ☐ No Additional fee is required. ☐ The fee has been calculated as shown:

Fee Calculation for Claims Pending After Amendment					
	Pending Claims after Amendment (1)	Claims Paid for Earlier (2)	Number of Additional Claims (1-2)	Cost per Additional Claim	Additional Fees Required
Total Claims				x \$9 =	
Independent Claims				x \$43 =	
One or More New Multiple Dependent Claims Presented? If Yes, Add \$145 Here →					
Total Additional Claim Fees Required					

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

CERTIFICATE UNDER 37 C.F.R. §1.8: The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 10th day of March, 2004.

MUETING, RAASCH & GEBHARDT, P.A.
Customer Number: 26813

By: 
Name: Nancy A. Johnson
Reg. No.: 47,266
Direct Dial: 612-305-4723
Facsimile: 612-305-1228



PATENT
Docket No. 275.00080101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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)		
Serial No.: 10/718,359)	Examiner:	Unknown
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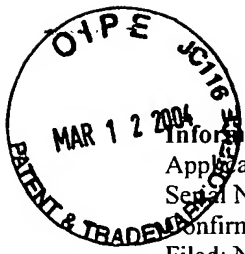
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. As this patent application was filed after June 30, 2003, copies of the U.S. patents and U.S. patent application publications listed on the attached 1449 forms have not been submitted. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.



Information Disclosure Statement

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The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

Respectfully submitted for

Ganapathy et al.

By

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Nancy A. Johnson
Nancy A. Johnson

March 10, 2004
Date

By: Nancy A. Johnson
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**INFORMATION
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Group: 1642

Information Disclosure Statement mailed: March 10, 2004

U.S. PATENT DOCUMENTS

Examiner Initial	Copies Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		4,736,866	04/12/88	Leder et al.			
		4,873,191	10/10/89	Wagner et al.			
		5,175,383	12/29/92	Leder et al.			
		5,175,384	12/29/92	Krimpenfort et al.			
		5,221,778	06/22/93	Bryne et al.			
		5,223,409	06/29/93	Ladner et al.			
		5,288,846	02/22/94	Quertermous et al.			
		5,298,422	03/29/94	Schwartz et al.			
		5,347,075	09/13/94	Sorge			
		5,387,742	02/07/95	Cordell			
		5,464,764	11/07/95	Capecchi et al.			
		5,487,992	01/30/96	Capecchi et al.			
		5,614,396	03/25/97	Bradley et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Copies Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	X	WO 90/02809	03/22/90	PCT				
	X	WO 91/17271	11/14/91	PCT				
	X	WO 92/01047	01/23/92	PCT				
	X	WO 92/09690	06/11/92	PCT				
	X	WO 92/20791	11/26/92	PCT				
	X	WO 92/15679	09/17/92	PCT				
	X	WO 92/18619	10/29/92	PCT				

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	Information Disclosure Statement mailed: March <u>10</u> , 2004	

	X	WO 93/01288	01/21/93	PCT				
	X	WO 91/00906	01/24/91	PCT				
	X	WO 91/10741	07/25/91	PCT				
	X	WO 92/03918	03/19/92	PCT				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copies Enclosed	Document Description
	X	Ashrafi et al., "Genome-wide RNAi analysis of <i>Caenorhabditis elegans</i> fat regulatory genes," <i>Nature</i> , 16 January 2003;421:268-272.
	X	Atmaca et al., "Weight Gain and Serum Leptin Levels in Patients on Lithium Treatment," <i>Neuropsychobiology</i> , 2002;46:67-69.
	X	Ausubel et al., eds., <i>Current Protocols in Molecular Biology, Vols 1-4</i> , John Wiley & Sons, Inc., New York, NY, 1994; title page, publisher's page and table of contents only (16 pages).
	X	Bai, L. & Pajor, A. M., "Expression cloning of NaDC-2, an intestinal Na(+)- or Li(+)-dependent dicarboxylate transporter," <i>Am. J. Physiol</i> , 1997; 273(2), G267-G274.
	X	Baptista et al., "Lithium and Body Weight Gain," <i>Pharmacopsychiatry</i> , 1995;28:35-44.
	X	Barbas III et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>PNAS</i> , September 1991;88:7978-7982.
	X	Bass et al., "A systematic mutational analysis of hormone-binding determinants in the human growth hormone receptor," <i>Proc Natl Acad Sci USA</i> , May 1991;88: 4498-4502.
	X	Blakely et al., "Vaccinia-T7 RNA Polymerase Expression System: Evaluation for the Expression Cloning of Plasma Membrane Transporters," <i>Annal Biochem.</i> , 1991;194:302-308.
	X	Bode et al., "Molecular and functional analysis of glutamine uptake in human hepatoma and liver-derived cells," <i>Am J. Physiol</i> , 3 July 2002;283: G1062-1073.

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	X	Bond et al., "The effect of lithium salts on the urinary excretion of α -oxoglutarate in man," <i>Br J Pharmacol.</i> , 1972;46:116-123.
	X	Bruggeman et al., "Human antibody production in transgenic mice: expression from 100kb of the human IgH locus," <i>Eur J Immunol</i> , 1991;21:1323-1326.
	X	Chalfie et al., "Green Fluorescent Protein as a Marker for Gene Expression," <i>Science</i> , 11 February 1994;263:802-805.
	X	Chancy et al., "Expression and Differential Polarization of the Reduced-folate Transporter-1 and the Folate Receptor α in Mammalian Retinal Pigment Epithelium," <i>J Biol Chem</i> , 7 July 2000;275(27): 20676-20684.
	X	Chen et al., "Characterization of a Rat Na ⁺ -Dicarboxylate Cotransporter," <i>J Biol Chem</i> , 14 August 1998;273(33): 20972-20981.
	X	Chen et al., "Molecular and functional analysis of SDCT2, a novel rat sodium-dependent dicarboxylate transporter," <i>J Clin Invest</i> , April 1999;103(8): 1159-1168.
	X	Chen and Silverstone, "Lithium and Weight Gain," <i>Int Clin Psychopharmacol.</i> , 1990;5:217-225.
	X	Cheng et al., "RNA interference and human disease," <i>Mol Genet Metab</i> , 2003; 80:121-28.
	X	Cheng et al., "Relationship between the inhibition constant (K_i) and the concentration of inhibitor which causes 50 percent inhibition (I_{50}) of an enzymatic reaction," <i>Biochem. Pharmacol.</i> , 1973;22:3099-3108.
	X	Chothia et al., "Canonical Structures for the Hypervariable Regions of Immunoglobulins," <i>J Mol. Biol.</i> , 1987; 196: 901-917.
	X	Clackson et al., "Making antibody fragments using phage display libraries," <i>Nature</i> , 15 August 1991;352:624-628
	X	Coxhead et al., "Carbamazepine versus lithium in the prophylaxis of biopolar affective disorder," <i>Acta Psychiatr Scand</i> , 1992;85:114-118.
	X	Cunningham and Wells, "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis," <i>Science</i> , 2 June 1989;244:1081-1085.

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	X	Fagiolini et al., "Prevalence of Obesity and Weight Change During Treatment in Patients with Bipolar I Disorder," <i>J Clin Psychiatry</i> , June 2002;63(6):528-533.
	X	Fei et al., "Structural and Functional Characteristics of Two Sodium-coupled Dicarboxylate Transporters (ceNaDC1 and ceNaDC2) from <i>Caenorhabditis elegans</i> and Their Relevance to Life Span," <i>J Biol Chem</i> , 21 February 2003;278(8): 6136-6144.
	X	Fei et al., "The Amino Acid Transport System y ⁺ L Induced in <i>Xenopus laevis</i> Oocytes by Human Choriocarcinoma Cell (JAR) mRNA is Functionally Related to the Heavy Chain of the 4F2 Cell Surface Antigen," <i>Biochemistry</i> , 1995;34:8744-8751.
	X	Fei et al., "Two oligopeptide transporters from <i>Caenorhabditis elegans</i> : molecular cloning and functional expression," <i>Biochem J</i> , 1998;332:565-572.
	X	Fei et al., "A Novel H ⁺ -coupled Oligopeptide Transporter (OPT3) from <i>Caenorhabditis elegans</i> with a Predominant Function as a H ⁺ Channel and an Exclusive Expression in Neurons," <i>J Biol Chem</i> , 31 March 2000;275(13): 9563-9571.
	X	Fei et al., "Expression cloning of a mammalian proton-coupled oligopeptide transporter," <i>Nature</i> , 7 April 1994;368:563-566.
	X	Fei et al., "Preferential recognition of zwitterionic dipeptides as transportable substrates by the high-affinity peptide transporter PEPT2," <i>Biochim Biophys Acta</i> , 1999;1418: 344-351.
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	X	Friedmann, "Progress Toward Human Gene Therapy," <i>Science</i> , 16 June 1989;244: 1275-1281.
	X	Fuchs et al., "Targeting Recombinant Antibodies to the Surface of <i>Escherichia Coli</i> : Fusion to a Peptidoglycan Associated Lipoprotein," <i>Bio/Technology</i> , December 1991;9:1370-1372.

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	X	Garrad et al., "F _{AB} Assembly and Enrichment in a Monovalent Phage Display System," <i>Bio/Technology</i> , December 1991;9: 1373-1377.
	X	Genbank Accession Number BI490092: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BI490092, GenBank gi: 15329320, dbEST Id: 9319728, "RNA source anonymous pool of 6 male brains, age range 23-27; 1 male lung, age 27; and 1 male testis, age 69," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15329320>; 3 pgs.
	X	Genbank Accession Number BG616615: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BG616615, GenBank gi: 13667986, dbEST Id: 8338710, "5' and 3' adaptors were used in cloning...", [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=13667986>; 2 pgs.
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	X	Genbank Accession Number R01302: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. R01302, GenBank gi: 751038, dbEST Id: 171457, "1 st Strand cDNA was primed with a PAC I- oligo(dT) primer...", [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=751038>; 3 pgs.

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	X	Genbank Accession Number AY151833: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AY151833, Accession No. AY151833, "Homo sapiens Na+-coupled citrate transporter protein (NaCT) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=27651990>; 3 pgs.
	X	Genbank Accession Number AF522186: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF522186, Accession No. AF522186, "Rattus norvegicus sodium-coupled citrate transporter mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=24210856>; 3 pgs.
	X	Genbank Accession Number NM_079426: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus NM_079426, Accession No. NM_079426, "Drosophila melanogaster I'm not dead yet CG3979-PA (Indy) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=24666460>; 5 pgs.
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	X	Genbank Accession Number AF169301: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF169301, Accession No. AF169301, "Homo sapiens Na+/sulfate cotransporter SUT-1 (SUT-1) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=6224690>; 3 pgs.
	X	GenBank Accession No. AF509505: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF509505, Accession No. AF509505, "Drosophila melanogaster INDY transporter protein (Indy) mRNA, complete cds," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=27127245>; 3 pgs.

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	X	GenBank Accession No. BB393630: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BB393630, GenBank gi: 16409164, dbEST Id: 10005027," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=16409164>; 3 pgs.
	X	GenBank Accession No. BB641100: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Account No. BB641100, GenBank gi: 15401660, dbEST Id: 9379637, [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15401660>; 3 pgs.
	X	GenBank Accession No. Z14092: National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus CER107, Accession No. Z14092, "Caenorhabditis elegans cosmid R107, complete sequence," [online]. Bethesda, MD [retrieved on 2004 February 19]. Retrieved from the Internet:<URL:ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=6820>; 24 pgs.

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	X	Goding, J., "Monoclonal Antibodies: Principles and Practice," 3 rd Edition, Academic Press, 1996, title page, publisher's page and table of contents only.
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